

Mining companies are turning to Information Technology to improve business performance. IoT and Industry 4.0 promise revolutionary progress. Automation and data exchange enabled through cloud computing and cognitive analytics lead the charge. Yet without a practical, engineered application of technology, the anticipated leaps in business performance will remain unrealised.

Mining companies with ERP solutions are challenged by operating systems insufficiently agile enough to leverage the advancements in IoT, big data and analytics. This is leading to the creation of new machine monitoring and analytics silos, not integrated to their operational data systems which limits their ability to analyse data across asset types, human activity and environmental impact management.

Vetasi's focus is on providing a prebuilt, unified solution, providing visibility across the integrated mining value chain. Asset, maintenance and supply chain, coupled with business performance information is combined and collated with data from IoT sensors or traditional instrumentation to provide a single source of the truth for effective decision making supported by advanced and predictive analytics.

Mining Accelerator Solution

The Vetasi Mining Accelerator, based on IBM Maximo, is designed to integrate the daily mine operations, specifically focusing on maximising production, whilst simultaneously automating the support required from back-office business processes, including Asset Lifecycle Planning Work and Supply Chain management. These activities are assessed in real-time, against budget availability and with full financial control.

The accelerator includes the best practice of role and responsibility definitions, work processes KPI's, dashboards and reports. Standardised asset data definitions, such as specifications and classifications, failure reporting structures, standard maintenance tasks and supply chain information such as pre-configured spare parts catalogues.

The Mining Accelerator is aligned to ISO 14224 and supports the relevant requirements of an ISO 55000 compliant management system.



Mining Accelerator Benefits

The Accelerator delivers benefits to mining companies by breaking down departmental silos, centralizing information, role-based management KPI's and automated workflows. This offers authorisation levels and budget availability controls. Once implemented, the solution drives day to day decision making and supports operations with detailed cost management, derived from integrated data sets.

Value delivered to mining customers:

- ⊕ Mining companies use IBM Maximo to integrate operations, maintenance and the supply chain. An Indonesian Mining company was able to unlock \$70 million in working capital by removing excess stock from its operations, through automated processes.
- ⊕ Within 12-months, Vetasi was able to eliminate the main cause of failures across a deep level gold mining operations trackless vehicle fleet by deploying IBM Maximo and using advanced failure analysis.
- ⊕ IBM Maximo is used to actively monitor serialised assets, using RFID tags that monitor vehicles as they pass a scanner. This technology is also used to identify replaced or missing equipment.
- ⊕ The embedded HS&E solution manages certifications, licenses and permits in real-time while automating the auditing and routing of incidents, risks and investigations for analysis and corrective action.
- ⊕ Our team assisted a large Platinum Mine in South Africa to implement condition-based maintenance strategies by analysing data collected through the integration between IBM Maximo and its SCADA system.
- ⊕ We created a line of sight visibility for a Lime Mine in South Africa by driving day to day decisions through dashboards that monitor performance indicators on all levels of the organisation.
- ⊕ A copper smelter in Namibia improved back-office operations by integrating asset management with supply chain management through an internet procurement portal.
- ⊕ With Vetasi a large Diamond Mine in Botswana optimised maintenance tactics for all assets following a risk-based RCM approach while implementing best practice.



Speak to our expert

Bouke Spoelstra enquiries@vetasi.com

Gold
Business
Partner



MINING ACCELERATOR